



Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE ¹	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES ³	DIAGNOSTIC ⁶
2008	8CEXH0912XAK	14.9	Diesel	Diesel	HHDD	DDI, TC, CAC, ECM, EGR, OC, PTOX	EMD
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL ⁵		ADDITIONAL IDLE EMISSIONS CONTROL ⁵					
30g		Engine family 8KBXL719KCB-based APS exhausting through the after-treatment system of primary engine.					
ENGINE (L)		ENGINE MODELS / CODES (rated power, in hp)					
14.9		See attachment for engine models and ratings					



BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending submission of additional information to justify the auxiliary emission control device (AECD) used for engine protection. The manufacturer must demonstrate that the use of the AECD is the minimum strategy necessary for engine protection. The manufacturer has until March 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through March 31, 2008; engines produced after the aforementioned effective date are deemed uncertified.

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending final approval of "Certified Clean Idle" and "Verified Clean APS" vehicle labels. The manufacturer has until March 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through March 31, 2008; engines produced after this date are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-0472 dated January 18, 2008.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 5 day of March 2008.


Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: min/stroke @ peak HP (for diesel only)	5.Fuel Rate: lbs/hr @ peak HP (for diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: min/stroke@peak torque	8.Fuel Rate: (lb/hr)/@peak torque/Device Per SAE J1930	9.Emission Control
8CEXH0912XAK	1437;FR10647	ISX 435ST	435@1800	257	156	1750@1200	349	141	DDI PTOX, PCM,
8CEXH0912XAK	1437;FR10667	ISX 435ST	435@1800	257	156	1650@1200	333	135	TC PTOX, PCM,
8CEXH0912XAK	1437;FR10648	ISX 435ST	435@1800	257	156	1750@1200	349	141	CAC PTOX, PCM,
8CEXH0912XAK	1437;FR10664	ISX 435	435@1800	257	156	1650@1200	333	135	ECM PTOX, PCM,
8CEXH0912XAK	1437;FR10665	ISX 435	435@1800	257	156	1550@1200	311	126	EGR PTOX, PCM,
8CEXH0912XAK	1437;FR10649	ISX 425ST	425@1800	252	153	1750@1200	349	141	OC PTOX, PCM,
8CEXH0912XAK	1437;FR10668	ISX 425ST	425@1800	252	153	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10650	ISX 425ST	425@1800	252	153	1750@1200	349	141	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10651	ISX 425	425@1800	252	153	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10653	ISX 400ST	408@1800	245	149	1750@1200	349	141	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10654	ISX 400ST	408@1800	245	149	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10652	ISX 400ST	408@1800	245	149	1750@1200	349	141	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10655	ISX 400ST	408@1800	245	149	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10656	ISX 400	425@1800	252	153	1450@1200	284	116	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10658	ISX 385ST	408@1800	245	149	1550@1200	311	126	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10657	ISX 385ST	408@1800	245	149	1550@1200	311	126	PTOX PTOX, PCM,
8CEXH0912XAK	1437;FR10646	ISX 435V	425@1800	252	153	1450@1200	284	116	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10647	ISX 435ST	435@1800	257	156	1750@1200	349	141	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10667	ISX 435ST	435@1800	257	156	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10664	ISX 435	435@1800	257	156	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10665	ISX 435	435@1800	257	156	1550@1200	311	126	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10649	ISX 425ST	425@1800	252	153	1750@1200	349	141	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10688	ISX 425ST	425@1800	252	153	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10651	ISX 425	425@1800	252	153	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10653	ISX 400ST	408@1800	245	149	1750@1200	349	141	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10654	ISX 400ST	408@1800	245	149	1650@1200	333	135	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10656	ISX 400	425@1800	252	153	1450@1200	284	116	PTOX PTOX, PCM,
8CEXH0912XAK	2732;FR10658	ISX 385ST	408@1800	245	149	1550@1200	311	126	PTOX PTOX, PCM,

ATTACHMENT

A-021-0972-1

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: min/stroke @ peak HP (for diesel only)	5.Fuel Rate: @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lb/hr/7)@peak torque	9.Emission Control Device Per SAE J1930
8CEXH0912XAK	2732;FR10646	ISX 435V	425@1800	252	153	1450@1200	284	116	PTOX, PCM,
8CEXH0912XAK	2732;FR10690	ISX 450ST	450@1800	255	155	1750@1200	344	139	PTOX, PCM,
8CEXH0912XAK	2732;FR10691	ISX 450ST	450@1800	255	155	1650@1200	322	130	PTOX/PCM,
8CEXH0912XAK	2732;FR10692	ISX 450	450@1800	255	155	1650@1200	322	130	PTOX, PCM,
8CEXH0912XAK	2732;FR10693	ISX 450	450@1800	255	155	1550@1200	300	121	PTOX, PCM,
8CEXH0912XAK	2732;FR10694	ISX 450	450@1800	255	155	1450@1200	278	113	PTOX, PCM,

DDI, PTOX, PC, CAC, TC,
EGR, BCM

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